

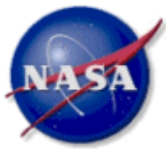
STI Bulletin Online

A quarterly electronic publication from the NASA Scientific and Technical Information (S T I) Program

...S T I Program Plan

In part, the NASA S T I Program Plan states, "The NASA Scientific and Technical Information Program is an integral part of NASA's future. The program supports the Agency's missions to communicate scientific knowledge and understanding to help transfer NASA's research and development to the aerospace and academic communities. By ensuring a fast, two-way process of internal and external information exchange, the S T I Program helps NASA avoid duplication of research, time, and cost and to make its wealth of information available to benefit its customers. Each Center is responsible for acquiring, tracking, and producing, or having produced, NASA S T I related to their Center mission; and for ensuring that Center S T I reaches the S T I Database [at the NASA Center for AeroSpace Information]."

To that end, each NASA Center executes the S T I Program mission and objectives by way of a team of individuals that applies professional publishing standards to all scientific and technical information passing through its doors. Whether the information will result in a document to be distributed through the traditional print and mail process or an electronic document available on the Internet-or both-the team is responsible for making it happen, going through the process step-by-step with each customer. For information about the S T I Program at any NASA Center, visit <http://www.sti.nasa.gov>.



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...From The STI Program Office (Program Office for the Agency-wide STI Program)

NASA Data Quality Guidelines

NASA finalized its guidelines for ensuring the quality of information. These guidelines outline the Agency's internal procedures for ensuring and maximizing the quality of certain types of information disseminated by NASA. In addition, they provide an administrative mechanism for correcting, when appropriate, information that does not comply with the guidelines. For more information regarding the guidelines and requests for correction of information under these procedures, access http://www.nasa.gov/misc/data_quality.html, which is available under the link entitled "NASA Data Quality Guidelines" on <http://www.nasa.gov>. For more information, you may contact Nancy Kaplan at nkaplan@hq.nasa.gov.

CENDI Meeting

George Roncaglia, Head of the STI Program Office, attended the December 2, 2002, CENDI meeting at the Environmental Protection Agency. This meeting was entitled "The Future Cyberinfrastructure: Government and Industry Perspectives." Speakers from the National Science Foundation, IBM, and the EPA gave presentations. Working sessions included security and privacy, content management and access, and associated policy issues.

Strategic Partnerships: Alliance for Innovation in Science and Technology Information (AISTI)

George Roncaglia, Scientific and Technical Information Program Lead, and JoAnne Rocker, Scientific and Technical Information Program Office staff, attended the Alliance for Innovation in Science and Technology Information's (AISTI's) Board of Directors Meeting and the Third Annual Mini-Conference entitled "Evolving Digital Libraries," held October 21-22, 2002, in Santa Fe, New Mexico. As full members of the AISTI consortium, the STI Program Office participates in the strategic planning and direction of the alliance. The AISTI mission is to acquire science and technology information and to create collaborative tool sets to promote new models of scholarly communication.

The AISTI mini-conference offered an array of speakers from industry, government, and academia. Presentations covered the gamut of visualization information, digital libraries, collaborative work environments, complexity theory, consortia arrangements, and developing strategies to manage a changing work environment. Presentations included: Tim Bray, Antarctica Systems, "Information, Visualization, and the Library"; Rebecca Koch, Koch and Associates, "Developing an Adaptable Strategy"; and Stephan Abram, Micromedia ProQuest, "10 Trends That Will Rock Your Library World." More information about AISTI and this year's mini-conference is available from its web site at <http://www.aisti.org/>.

New NASA Technical Report Server (NTRS) Under Development

NASA STI managers and the STI Program Office disseminate NASA-produced information to the public through a network of technical report servers located at the NASA centers. Technical report servers can be accessed and searched individually or they can be searched centrally through the NASA Technical Report Server (NTRS), <http://techreports.larc.nasa.gov/cgi-bin/ntrs>. NTRS is a distributed server environment made up of individual NASA technical report servers and non-NASA scientific and technical information servers. NTRS provides an integrated WAIS search interface for search and retrieval of citations from each of the technical report servers. Currently, NTRS does not contain metadata; it searches the metadata contained in the distributed technical report server system.

Although the NTRS and the NASA centers' technical report servers have been highly successful in disseminating NASA's scientific and technical research, users have limited searching capabilities with the WAIS-based infrastructure. A new initiative is underway to transition the NTRS and several NASA centers' technical report servers from a WAIS-based search engine to one based on the Open Archives Initiative (OAI), <http://www.openarchives.org/>. OAI is an effort to remove the barriers to information exchange among disparate collections by using a protocol that allows for transfer of data between digital repositories. The OAI protocol differs from other data exchange protocols, such as Z39.50, in that it is designed for simplicity. Harvesting is initiated by HTTP-encoded queries to OAI-compliant archives and metadata is returned in XML. The protocol calls for a standard metadata format based upon the 15 elements of Dublin Core, <http://dublincore.org/documents/dces/>. The use of Dublin Core removes the burden of trying to map between multiple metadata formats. An OAI layer can be put over existing information systems using Perl CGI scripts, Java servlets, PHP scripts, or any number of possible implementations.

In the new OAI environment, the NTRS will harvest the collections of other NASA centers' technical report servers and the repositories of external sites, and serve out the information through an integrated interface. Users can still search an individual center's technical report server or they can search for NASA information on the NTRS. The emergence of OAI as a technology bridge connecting heterogeneous data sources, offers the STI Program a way to build its collection. Further, as more information providers start using OAI for data exchange, the breadth and scope of information available to the STI Program will grow.

Science.gov Web Site Connects Public to Government Science



According to a December 5, 2003, press release, the American public is now "connected as never before to U.S. Government science and technology. Fourteen scientific and technical information organizations from 10 major science agencies have collaborated to create the "FirstGov for Science" web site <<http://www.science.gov>>. Science.gov is the gateway to reliable information about science and technology from across Federal government organizations."

"Science.gov aims to bring the substantial resources of the federal science and technology enterprise together, in one place. Working together, federal agencies have assembled countless pages of government research, data, and reports. The site is a great example of e-government in action," said Dr. John H. Marburger, Director, Office of Science and Technology Policy, Executive Office of the President.

The agencies participating in science.gov are the Departments of Agriculture, Commerce, Defense, Education, Energy, Health and Human Services, and Interior; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

For additional information, see the press release at <http://www.science.gov/communications/pressrelease.pdf>.



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...From NASA's Johnson Space Center

Recent NASA Reports by Johnson Space Center Authors

Recent reports prepared by Johnson Space Center publications personnel and posted to a server that is accessible through the NASA Technical Report Server (NTRS) are:

- Morrison, Dennis, ed., Second International Conference on Near-Field Optical Analysis: Photodynamic Therapy & Photobiology Effects, NASA/CP-2002-210786.
- Francis Cucinotta, et al., Space Radiation Cancer Risk Projections for Exploration Missions: Uncertainty Reduction and Mitigation, NASA/TP-2002-210777.
- Thomas H. See, et al., Major Element Analyses of the Target Rocks at Meteor Crater, Arizona, NASA/TM-2002-210787.
- Laura A. Thompson, et al., Modeling Grade IV Gas Emboli Using a Limited Failure Population Model with Random Effects, NASA/TP-2002-210781.
- K. S. Jarvis, et al., Charged Coupled Device Debris Telescope Observations of the Geosynchronous Orbital Debris Environment - Observing Year: 1998, NASA/TP-2002-210773.
- Johnny Conkin, et al., Case Descriptions and Observations about Cutis Marmorata from Hypobaric Decompressions, NASA/TP-2002-210779.
- Stephen J. Hoffman, Antarctic Exploration Parallels for Future Human Planetary Exploration: A Workshop Report, NASA/TP-2002-210778.
- Daigoro Ito, et al., Reentry Flight Vehicle Controls Design Guidelines: Dynamic Inversion, NASA/TP-2002-210771.



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...From the NASA Center for AeroSpace Information

NASA Research on CD-ROM



"**NASA Research on CD-ROM -- 2003**" contains all new unclassified publicly available NASA STI (scientific and technical information) recently processed and loaded to the NASA STI Database. The CD-ROM consists of searchable PDF files that can be viewed, downloaded to a user's workstation or uploaded to an intranet, and be printed as needed. The STI on the CDs are arranged by Document Identification Number for easy retrieval of material. This product complements the offerings of the NASA STI online systems (ReconPlus and CASI TRS [Technical Report Server]). A special binder is provided to store the CD-ROM products.

The *NASA Research on CD-ROM* product is a valuable tool for your organization. Its ease of access allows for immediate enhancement of the level of knowledge that flows through the organization. *NASA Research on CD-ROM* will help to support the organization's development, engineering, studies programs, and research management efforts.

Unique Capabilities:

- Searchable PDF files (word/phrase search within documents)
- Timely and convenient access to research
- Easy portability of reference
- Save, restore, or replace documents on users' workstation

Advantages:

- Immediate access to research/reference material
- Available 24 hours a day (no Internet connection)
- Cost effective
- Content of CD-ROM can be installed on a local hard drive
- Content of CD-ROM can be installed on intranet for multiple users

System Requirements:

- 16 MB RAM minimum (32 MB RAM recommended for faster response)
- CD-ROM drive

Cost:

NASA and/or NASA Contractors - \$3,500
Non-NASA - \$4,200

Annual subscription includes all new unclassified publicly available additions to the NASA Aeronautics and Space Database for the subscription year.

For more information pertaining to this product, please contact: NASA Center for AeroSpace Information (CASI)
NASA STI Help Desk
7121 Standard Drive
Hanover, MD 21076
(301) 621-0390
help@sti.nasa.gov

Registration with the NASA Center for AeroSpace Information is required in order to qualify for the unclassified limited version of this product/service. Please fill out the registration form at <http://www.sti.nasa.gov/regist2N.pdf>

To order this product, fill out the following form: <http://www.sti.nasa.gov/cgi-bin/ordersti.pl>

NATO RTO Publications Available to U.S. Users

The NASA Center for AeroSpace Information (CASI), the U.S. national distribution center for NATO Research and Technology Organization (RTO), is pleased to offer an RTO Automatic Document Distribution Service (RTO-ADDS) to U.S. recipients. This service is an annual subscription that will provide you with all publicly available RTO publications on CD-ROM as soon as they are produced. The price is \$360.00* for 2003.

RTO publishes approximately 40 technical publications in five series each year.

- AG AGARDographs: (Advanced Guidance for Alliance Research and Development), a successor to the former AGARD AGARDograph series of monographs, and containing material of the same long-lasting value.
- MP Meeting Proceedings: the papers presented at non-educational meetings at which the attendance is not limited to members of RTO bodies. This includes symposia, specialists' meetings, and workshops. Such publications generally include a Technical Evaluation Report of the meeting and sometimes edited transcripts of any discussions that followed the presentations.
- EN Educational Notes: the papers presented at lecture series or courses.
- TR Technical Reports: other technical publications given a full distribution throughout the NATO nations (within limitations, due to their classification).
- TM Technical Memoranda: other technical publications not given a full distribution, for example, because they are of ephemeral value only, or because the results of the study that produced them, may be released only to the nations that participated in it.

To receive all RTO publications, complete the convenient [order form](#) and fax it to NASA CASI Registration Services at 301-621-0134. For additional information, contact the STI Help Desk at 301-621-0390 or by e-mail at help@sti.nasa.gov and ask for Ms. Delores Johnson.

*NASA and NASA Contractors registered at the NASA CASI can obtain RTO-ADDS for \$300.00. Contact NASA CASI Registration Services for details.

New Dissemination Notice From NASA STI

Users of the NASA STI online systems and recipients of NASA STI from the NASA Center for AeroSpace Information (CASI) have recently seen a notice on dissemination of NASA STI. The notice alerts users that access to and distribution of NASA scientific and technical information is provided to

them based on their individual registration levels at the NASA CASI. The recipients of STI need to be aware that because they qualify to receive the STI, not everyone qualifies.

These rules and procedures are not new and have been in place for many years. However, increased national security awareness because of 9/11 and the growth and ease of sharing information electronically have combined to make government and publishers more conscious of how their information is disseminated. The laws and regulations that govern the content and dissemination of information affect not only the government and publishers, but end users as well, including librarians, researchers, and the general public.

Most of NASA STI does not contain any distribution restrictions. Applicable restrictions may be based on Federal export regulations, commercial proprietary restrictions, or copyrights. In addition, the NASA STI Program maintains STI exchange agreements with international and other U.S. organizations that would be unavailable without appropriate controls and allows NASA to conduct its mission more effectively and efficiently. NASA, like other government and public consumers, utilizes commercial sources for acquiring some of its STI. Controlling access to these commercial sources allows NASA to obtain STI at more competitive rates.

As we increasingly rely on sharing STI and other information, we are affected by information policy and laws. For more information on some of the issues involved in information dissemination, access the following references:

- International Council for Scientific and Technical Information (ICSTI) <http://www.icsti.org>
- Frequently Asked Questions About Copyright <http://www.dtic.mil/cendi/publications/00-3copyright.htm>
- <http://www.fepproject.org/policyreports/copyright.html>



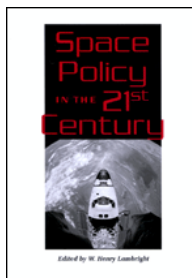
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...From the NASA History Office

New Publications



Space Policy in the 21st Century, edited by W. Henry Lambright. (Baltimore: Johns Hopkins New Series in NASA History, 2002). A product of a conference held by Syracuse University in Washington, D.C. two years ago, this collected work features chapters by 10 leading observers of the U.S. civil space program on such key topics as access to space, Earth observing, space commerce, and astrobiology. Interested readers may get more information and purchase this hardcover book for \$49.95 from the [Johns Hopkins University press web site](#).

To Reach the High Frontier: A History of U.S. Launch Vehicles, edited by Roger D. Launius and Dennis R. Jenkins (Lexington: The University Press of Kentucky, 2002). Every participant in space activities - civil, military, scientific, or commercial - needs affordable, reliable, frequent, and flexible access to space. This book presents case studies in the history of all the major rockets built by the United States. Each study has been written by a specialist knowledgeable about the vehicle described and places each system in the larger context of the history of spaceflight. Copies may be obtained for \$49.95 [here](#).

The First Century of Flight: NACA/NASA Contributions to Aeronautics. An informative and colorful poster produced by Anthony Springer of NASA's Office of Aerospace Technology with assistance from the NASA History Office. The poster is printed on both sides and comes prefolded into eight panels. It is free for the cost of a self-addressed, stamped envelope; one per customer while supplies last. To request a copy of this timeline poster, please send a self-addressed 9x12" envelope with appropriate postage for 3 ounces (typically \$0.85 within the U.S., \$1.10 for Canada, and \$2.40 for overseas. International customers are asked to purchase U.S. postage through an outlet such as www.stampsonline.com) to the NASA Headquarters Information Center, Code CI-4, Washington, D.C. 20546.

We Freeze to Please: A History of NASA's Icing Research Tunnel and the Quest for Safety by William M. Leary (Washington, D.C.: NASA SP-2002-4226, 2002) is now available. The formation of ice on wings and other control surfaces of airplanes is one of the oldest and most vexing problems that aircraft engineers and scientists continue to face. While no easy, comprehensive answers exist, the staff at NASA's Icing Research Tunnel (IRT) at the Glenn Research Center in Cleveland has done pioneering work to make flight safer for experimental, commercial, and military customers for almost 40 years. "We Freeze to Please" brings this record forward clearly for the attention of specialists, policymakers, students, and general readers.

How to order: For sale for \$28.00 (domestic postpaid) \$39.20 (internationally), from the US Superintendent of Documents. By Mail: U.S. Government Printing Office, Documents Warehouse, 8610 Cherry Lane, Laurel, MD 20707, Attn: Sales Stock (please put the stock number on the carton/cartons). By phone: (202) 512-1707 ext: 30273. By fax: (202) 512-1657. Order stock number 033-000-01244-6. This book may also be

purchased from the NASA Information Center, Code CMI-1, NASA Headquarters, 300 E Street SW, Room 1H23, Washington, DC 20546-0001, (202) 358-0000. Order NASA SP-2002-4226.

New Electronic NASA History Resources

[*Origins of NASA Names*](#) (NASA SP-4402, 1976) by Helen T. Wells, Susan H. Whiteley, and Carrie Karegeannes. This book was published over 25 years ago and has not been updated for republication. Thus much of the material is dated. For example, several NASA Field Centers have had name changes in the intervening years. Nevertheless, we hope that this online version provides useful reference information for researchers. It is divided into chapters on launch vehicles, satellites, space probes, human space flight, sounding rockets, and NASA facilities with some added appendices. It is a unique etymological resource. Special thanks to volunteer Chris Gamble for his help scanning and formatting this book for the Web.

[*NASA Office of Defense Affairs: The First Five Years*](#) (HHR-32, 1970) by W. Fred Boone. Admiral Boone led the Office of Defense Affairs from December 1, 1962 through January 1, 1968, a formative early period in space history when cooperation between NASA, a civilian agency, and the military was especially important. This significant narrative charts these early efforts in coordination. Special thanks to volunteer Chris Gamble for scanning and formatting this book for the Web.

[*Evolution of the Solar System*](#) (NASA SP-345, 1976) by Hannes Alfven and Gustaf Arrhenius. This is an excellent volume on planetary science. While it includes some scientific equations, it also includes many diagrams and images. The authors strove to make the material understandable to the educated lay reader. Special thanks to Chris Gamble for scanning and formatting this book for the Web.



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...Other News - Focus on MARS

Press Releases

December 6, 2002

Candidate Mission Would Scan Mars Atmosphere for Signs of Life



Artist's concept of Mars Volcanic Emission and Life Scout

A possible mission to Mars in 2007 would scrutinize the Martian atmosphere for any chemical traces of life, or even environments supportive of life, anywhere on the planet.

An international team led by Dr. Mark Allen, an atmospheric chemist at NASA's Jet Propulsion Laboratory, Pasadena, CA, developed the mission proposal named Mars Volcanic Emission and Life Scout, or Marvel. Today, NASA announced that Marvel is one of four finalists in competition for the first Mars Scout Mission for the 2007 launch opportunity. Final selection by the NASA associate administrator for space science, Dr. Edward Weiler, will be made by late next summer.

For more information, [click here](#).

For more information visit the STI Database, <http://www.sti.nasa.gov /ASAP/>

Examples of Available Conference Proceedings

Title: The Fifth International Conference on Mars

Document ID: 20000110269

U.S. Price: CD-ROM - \$33.00

The CD-ROM contains the entire conference proceedings presented in PDF format. Papers about Mars and Mars exploration are presented, covering topics such as Martian history, geology, volcanism, channels, moons, atmosphere, meteorology, water on the planet, and the possibility of life. The unmanned exploration of Mars is discussed, including the Phobos Mission, the Mars Observer, and the Mars sample return missions. Issues dealing with manned exploration of Mars are examined, such as the reasons for exploring Mars, mission scenarios, a transportation system for routine visits, technologies for Mars expeditions, the human factors for Mars missions, life support systems, living and working on Mars, and the report of the National Commission on Space.

Conference was held July 19-24, 1999 in Pasadena, CA.

Title: Mars Sample Handling Protocol Workshop Series [Interim Report]

Author: Rummel, John D. (NASA, Washington, DC United States); Race, Margaret S. (Search for Extraterrestrial Intelligence Inst., Mountain View, CA United States)

Document ID: 20010038564

Report Number: NASA/CP-2000-209624

U.S. Price: Hardcopy - \$43.00 **Microfiche** - \$14.50

This document is the report resulting from the first workshop of the series on development of the criteria for a Mars sample handling protocol. Workshop 1 was held in Bethesda, Maryland on March 20-22, 2000. This report serves to document the proceedings of Workshop 1; it summarizes relevant background information, provides an overview of the deliberations to date, and helps frame issues that will need further attention or resolution in upcoming workshops. Specific recommendations are not part of this report.

Title: Concepts and Approaches for Mars Exploration, Part 1

Document ID: 20010023036

U.S. Price: Hardcopy - \$53.00 **Microfiche** - \$27.50

This volume contains extended abstracts that have been accepted for presentation at the Concepts and Approaches for Mars Exploration (Part 1) workshop, July 18-20, 2000 in Houston, TX.

Title: Concepts and Approaches for Mars Exploration, Part 2

Document ID: 20010020461

U.S. Price: Hardcopy - \$43.00 **Microfiche** - \$14.50

This volume contains extended abstracts that have been accepted for presentation at the Concepts and Approaches for Mars Exploration (Part 2) workshop, July 18-20, 2000, in Houston, TX.

Logistical, administrative, and publications support were provided by the Publications and Program Services Department of the Lunar and Planetary Institute.

Imagine Mars Webcast

On December 13, 2002, as part of the Imagine Mars Project, Bill Nye the Science Guy and dancer/choreographer Debbie Allen, combined Science and Art in an interactive webcast broadcasted from JPL's con Karman Auditorium!

Bill talked with students, artists, and scientists about life here on earth and how it might be different on Mars. Debbie took visitors through an exploration of movement on Mars. How will reduced gravity and strong winds change the way we move? Dance? Debbie and student dancers from her academy showed ideas in a choreographed professional performance followed by audience participation.

For more information about the Imagine Mars Project, please visit the website at <http://imaginemars.jpl.nasa.gov>.

Videos on Mars Exploration Available

The video "Welcome to Outer Space," narrated by Jodie Foster, contains close-up images of the surface of Mars; robotic exploration of Mars; the first mapping assignment of Mars; along with a brief history of the Jet Propulsion Laboratory, the current missions at JPL and what the future may hold. **Document ID:** 19990116371 **Running time:** 19 min, 50 sec. **U.S. Price: VHS** - \$25.00

Beta (NTSC) - \$90.00

The historical U.S. mission to Mars is presented in the video "First U.S. Mars Landing." The launches of Viking 1 and 2 are shown and objectives for the mission are discussed. **Document ID:** 19940010963 **Running time:** 4 min, 30 sec. **U.S. Price: VHS - \$20.00 Beta (NTSC) - \$85.00**

The video "Mars Pathfinder and Mars Global Surveyor Outreach Compilation" contains the best NASA JPL videos of these missions. Some highlights include actual color footage of Sojourner, the Mars rover, as well as a 360 degree pan of the Mars terrain surrounding the spacecraft is provided. Black and white photography depicting Sojourner traversing the Mars surface and inspecting Martian rocks is included. **Document ID:** 19990116545 **Running time:** 51 min, 25 sec. **U.S. Price: VHS - \$35.00 Beta (NTSC) - \$100.00**

The Field Integrated Design and Operations (FIDO) rover is discussed in "FIDO - Video File." The rover is a prototype of the Mars Sample Return rovers that will carry the integrated Athena Science Payload to Mars in 2003 and 2005. The videotape shows tests of FIDO in the Mojave Desert. These tests include drilling through rock and movement of the rover. Also included are interviews with Dr. Raymond Arvidson, the test director for FIDO, and Dr. Eric Baumgartner, Robotics Engineer at the Jet Propulsion Laboratory. **Document ID:** 20000027708 **Running time:** 10 min. **U.S. Price: VHS - \$20.00 Beta (NTSC) - \$85.00**

For a complete list of NASA videos in CASI's collection, please visit the NASA Video Catalog at <http://www.sti.nasa.gov/Pubs/Videocat/videocat.pdf>

Listing of Mars Press Releases:

<http://mars.jpl.nasa.gov/newsroom/pressreleases/index.html>

Mars Informational Links

The Mars Exploration Home Page is located at <http://mars.jpl.nasa.gov/>. Mission fact sheets of JPL's Mars missions can be found at <http://mars.jpl.nasa.gov/newsroom/factsheets/index.html>. High-resolution images can be accessed at <http://mars.jpl.nasa.gov/gallery/index.html>. A list of past, present, and future missions can be located at <http://mars.jpl.nasa.gov/missions/index.html>.

The Mars Odyssey Home Page is <http://mars.jpl.nasa.gov/odyssey/>. Simulated views of the location of Mars Odyssey can be viewed at <http://mars.jpl.nasa.gov/odyssey/mission/rightnow.html>. This webpage updates every 10 minutes.

Mars Odyssey has a New Project Scientist:

<http://mars.jpl.nasa.gov/odyssey/newsroom/pressreleases/20021120a.html>

UPCOMING CONFERENCES

The Sixth International Conference on Mars will take place from July 20th-25th, 2003 in Pasadena, California. This conference is sponsored by the California Institute of Technology, Jet Propulsion Laboratory, Lunar and Planetary Institute, and NASA. The schedule for the conference is as follows:

SCHEDULE	
January 15, 2003	Indication of Interest forms or e-mail due
February 28, 2003	Second announcement with call for abstracts posted on Web site
April 16, 2003	Deadline for abstracts to LPI
May 23, 2003	Final announcement and program with abstracts on Web site
June 15, 2003	Preregistration deadline
July 20, 2003	Registration and reception at Caltech Athenaeum
July 20-25, 2003	Sixth International Conference on Mars

More information on this conference can be found at <http://www.lpi.usra.edu/meetings/sixthmars2003/sixthmars2003.1st.html>. If you have interest in attending this conference, you may send an e-mail to meetings@lpi.usra.edu, with "Sixthmars 2003 Interest" in the subject line.

Information on obtaining the conference proceedings for the Fifth International Conference on Mars can be found here

Ordering Information for the NASA Center for AeroSpace Information

Processing of orders at CASI is usually completed within three business days and then shipped. Rush processing is available for an additional \$10.00 fee and generally is completed within 1 business day. A standard shipping and handling fee of \$2.00 for U.S. addresses is charged for each item. Federal Express service is available for \$7.00 within the U.S. In lieu of the standard shipping and handling fee, users may opt to use their own Federal Express account.

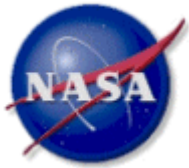
Prepayment is required in the form of VISA, MASTERCARD, AMERICAN EXPRESS, DINER'S CLUB, check or money order (US Currency). Make checks payable to: NASA Center for AeroSpace Information

To place an order for a report, complete the Online STI Order Form at <https://www.sti.nasa.gov/cgi-bin/ordersti.pl>

To place an order for a video, complete the Video Order Form at <https://www.sti.nasa.gov/cgi-bin/orderstivid.pl>

You may also choose to send your request to the NASA Center for AeroSpace Information STI Ordering Service at fax (301) 621-0134, or mail to:

NASA Center for AeroSpace Information
Attn: STI Ordering Service
7121 Standard Drive
Hanover, MD 21076-1320



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If you encounter any problems, you may send an e-mail to the Listserv Administrator at listmstr@sti.nasa.gov.

Special Instructions for MS Outlook users:

If you use MS Outlook, you will need to ensure that your mail format is properly configured -- before attempting to subscribe to the STI-BULLETIN -- otherwise you will receive an error and will not be subscribed. To properly configure your email -- or to correct the "This is a multi-part message in MIME format -- Unrecognized request THIS " listserv error when trying to subscribe -- do the following: In MS Outlook, go to: TOOLS/OPTIONS/MAIL FORMAT -- change "Message Format" to "Plain Text", then, click the "Internet Format" button, and check the box at the bottom to "Encode attachments in UUNENCODE format when sending a Plain Text message". This will properly configure your email to send the subscribe command to the listserv -- or fix the aforementioned error you may have received. If MS Outlook is not configured as described above, it will insert a message "This is a multi-part message in MIME format." -- even though you can't see it, it is there. This is not a recognized listserv command, therefore it is rejected by the listserv, and will not process your "subscribe" command. If you can't find where to change these options, please see your mail administrator.